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16 December 1959 P 227

MEMORANDUM FOR: THE RECORD

SUBJECT : Trip Report

1. TIME AND PLACE OF MEETING: 9 December 1959,   
New York City

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2. ATTENDANCE:

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3. The main purpose of this trip was to conduct acceptance tests of the three (3) available Wire Analyzers. The fourth and final Analyzer is being used as a model for the production of an additional fifteen (15) units.

4. The following characteristics of each Analyzer were determined:

- a. Oscillator frequency range and output.
- b. Oscillator calibration and dial accuracy.
- c. Oscillator wave shape and distortion.
- d. Electronic voltmeter calibration and accuracy.
- e. Electronic voltmeter frequency response.
- f. Induced voltage coupling between oscillator and EVM.
- g. AC power supply output and regulation.
- h. DC power supply output and regulation.
- i. Hum induction from power supply to audio amplifier.
- j. Audio amplifier gain and audio bandwidth.
- k. Battery charging rate.

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5. The above characteristics were determined for the initial three analyzers. Data obtained will be part of the final report from the contractor, due prior to 1 January 1960. Only one of these three units (#3) is the final version. This unit is different from #1 and #2 in that the DC power supply provides 450 volts DC instead of 230 volts DC and the induced hum into the audio amplifier has been greatly reduced.

6. All units tested meet or exceed the original specifications.

7. The three units tested were brought to Washington. Numbers 2 and 3 were demonstrated and released to [ ] on 14 December 1959. Number 1 is in the possession of the undersigned and is scheduled for additional life and operating tests.

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8. As previously mentioned, Number 4 is being retained by the contractor to be used as a model for the production of fifteen (15) additional units. Discussions were held and the acceptance tests and specification limits were agreed upon. The initial five (5) production units should be available by 15 February 1960.

9. This concludes RD-51, T.O. S.

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Distribution:

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